

Additions to the Flora of Kerala since Gamble (1935)

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Abstract

In the absence of a separate Flora of Kerala, Gamble's *Flora of the Presidency of Madras* (1915-35) is the usual authority that is consulted by general taxonomists and students for the study and identification of flowering plants of Kerala. As a large number of new species and records reported since then, has made Gamble's Flora obsolete, an attempt is made here to collect all the scattered published information available on the subject. Details regarding 625 new taxa that belong to 103 families, of which seven families are new to Kerala are compiled and presented. Of these new taxa, 240 are new to the world flora, with six new genera, 190 new species, three new sub-species and 41 new varieties.

The maximum number of new reports is from Orchidaceae with 118.9% increase in comparison with Gamble, followed by Zingiberaceae (88.2%) and Araceae (69.2%). The localities from where the maximum new reports are recorded are Silent Valley of Palghat District (36) and Chandanathode of Kannur District (33). Possible reasons for these are suggested. A complete list of References is provided for verification of details and further information about the additions to the Flora recorded.

INTRODUCTION

The first book ever printed on the Flora of any part of Kerala was *Hortus Malabaricus* by H.A. Van Rheede, published in 12 volumes from Amsterdam during 1678 - 1693. It contained the descriptions and illustrations of medicinal and other economically important plants found mostly in and around Cochin. Linnaeus was so impressed by this book that in his *Species Plantarum* (1753), the nomenclature of many of his Indian and other Asian plants were based on the information given in it. During the seventeenth and eighteenth centuries many European Botanists such as Herman, Boerhaave, Adriaan van Royan, Johannes Burman, George Everhard Rumphius, Paul Herman, W. Roxburgh and many others also established the binomial nomenclature of many taxa based on *Hortus Malabaricus*.

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The illustrated series of South Indian plants published by Robert Wight in the middle of 19th century contained many taxa found in Kerala. The multi-volume *Flora of British India* by Joseph Dalton Hooker was published during 1872-1897, which covered the Kerala region also. This was followed by many detailed regional Indian Floras like the *Flora of Upper Gangetic Plains* by J.F. Duthie (1903), *Flora of Bihar and Orissa* by H.H. Haines (1921-1924), *Flora of Bombay Presidency* by T. Cooke (1903-1908), etc.

Forest Trees of Travancore, published in 1908 by Bourdillon and the *Flowering Plants of Travancore* in 1914 by Rama Rao are other important works on the flora of this region in that period. A comprehensive *Flora of the Presidency of Madras* was begun by J. S. Gamble in 1915 and completed by C.E.C. Fischer in 1935, which covered large parts of the present day Tamil Nadu, Karnataka, Andhra Pradesh and Kerala.

Although no separate Flora of Kerala State has been published yet, floristic explorations have been going on in many parts of Kerala in greater or lesser detail. These localised studies have resulted in the publication of many papers and books, reporting many new taxa and many new records of taxa in Kerala. Notable among such books are the *Flora of Calicut* by K.S. Manilal & V.V. Sivarajan published in 1982, *Flora of Silent Valley* by K.S. Manilal published in 1988, *Flora of Cannanore* by V.J. Nair & V.S. Ramachandran published in 1988, *Flora of Palghat* by E. Vajravelu published in 1990, *Flora of Kerala: Grasses* by Sreekumar & Nair published in 1991, *Flora of Nilambur* by V.V. Sivarajan & Philip Mathew published in 1996 and *Flowering Plants of Thrissur Forest* (Western Ghats, Kerala, India) by N. Sasidharan and V.V. Sivarajan in 1996. A number of papers have also been published by Ansari, R., Joseph, J., Joseph, K.T., Karthikeyan, S., Sathish Kumar, C., Mukthesh Kumar, M.S., Mangaly, J.K., Manilal, K.S., Philip Mathew, Nair, K.K.N., Nair, N.C., Nair, V.J., Nayar, M.P., Pradeep, A.K., Ramachandran, V.S., Ravi, N., Renuka, C., Sabu, M., Sabu, T., Sasidharan, N., Sivadasan, M., Sivarajan, V.V., Sreekumar, P.V., Subramanian, K.N., Swaroopanandan, K., Thothathri, K., Vajravelu, E., Vasudevan Nair, R., Velayudhan, K.C. and several others (for details see the References), adding to our knowledge on the subject. *An Annotated Bibliography of Taxonomic Botany of Peninsular India 1959-1978*, by Karthikeyan, S., Nayar, M.P. & Vijayaraghavan, R.S., the *Key Works to the Taxonomy of Flowering Plants of India* (1984) by Nayar, M.P., and *Malvaceae of Southern Peninsular India* (1996) by V.V. Sivarajan and A.K. Pradeep are worthy of special mention as useful references in the study of the floristic works of this region.

All these studies undertaken after Gamble's work, have brought to light several new taxa and new records that were not found in his Flora. Since these information lie scattered in various research papers, reports and other publications, many of which are difficult to locate, general taxonomists and students who consult Gamble which is the only comprehensive Flora available for the region today, are misled and do not get a clear and factual picture of the Flora of Kerala or even of the information on the subject which is already in print and is

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expected to be available. A compilation of the available information on the subject has been a long felt need and the present paper is an attempt to fill this urgent exigency.

MATERIALS AND METHODS

Information about all the new taxa, new records and new combinations of angiosperms reported from Kerala since Gamble, is collected and given here. Families are arranged in alphabetical order. Names of taxa under each family are also arranged alphabetically. Additional information such as the locality from where the taxa were reported and the reference number for the concerned publication to facilitate easy checking of the original publication given under the **References**, are provided.

ANALYSIS OF ADDITIONAL DATA COLLECTED

An analysis of the number of taxa reported under each family is given in Table 1, giving details such as new genus, new species, new variety, new sub-species and new report. Information regarding 625 new taxa coming under 103 different families are found to be published by various workers since Gamble. Of these, 240 are new additions to the world flora. This includes six new genera, *Kanjaram* (Acanthaceae), *Haplothismia* (Burmanniaceae), *Chandrasekharania* and *Silentvalleya* (Poaceae), *Seidenfadeniella* (Orchidaceae) and *Janakia* (Periplocaceae); 193 new species, three new sub-species and 41 new varieties. Apart from the new taxa, some relevant new combinations are also included in the list.

Table 1. Familywise Analysis of New Taxa

No.	Name of Family	Sp. nov.	Gen. nov.	Comb. nov.	var. nov.	ssp. nov.	New Rec.	Total
1.	ACANTHACEAE	2	1	1			10	14
2	ALISMATACEAE						2	2
3	AMARANTHACEAE						4	4
4	ANACARDIACEAE				1			1
5	ANNONACEAE	2					3	5
6	APIACEAE	1					1	2
7	APOCYNACEAE						3	3
8	APONOGETONACEAE	1						1
9	ARACEAE	14			1		2	17

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No.	Name of Family	Sp. nov.	Gen. nov.	Comb. nov.	var. nov.	ssp. nov.	New Rec.	Total
10	ARALIACEAE	1					1	2
11	ARECACEAE	3					3	6
12	ARISTOLOCHIACEAE	5						5
13	ASCLEPIADACEAE	2		1			11	14
14	ASTERACEAE	2					10	12
15	BALSAMINACEAE	3					3	6
16	BEGONIACEAE	1						1
17	BIXACEAE						1	1
18	BOMBACACEAE	1						1
19	BORAGINACEAE	1					1	2
20	BURMANNIACEAE	1	1				1	3
21	CABOMBACEAE						1	1
22	CACTACEAE						1	1
23	CAESALPINIACEAE	1			1		2	4
24	CAMPANULACEAE						2	2
25	CAPPARIDACEAE						4	4
26	CARICACEAE				1			1
27	CELASTRACEAE	1					2	3
28	CHENOPODIACEAE						1	1
29	CHLORANTHACEAE						1	1
30	COMMELINACEAE	1					3	4
31	CONVOLVULACEAE	1				1	7	9
32	CRASSULACEAE						1	1
33	CUCURBITACEAE	1			2		7	10
34	CYPERACEAE	8			2		7	17
35	DIPTEROCARPACEAE						3	3
36	EBENACEAE	2					3	5

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No.	Name of Family	Sp. nov.	Gen. nov.	Comb. nov.	var. nov.	ssp. nov.	New Rec.	Total
37	ELATINACEAE						1	1
38	ERIOCAULACEAE	2						2
39	EUPHORBIACEAE	5			2		13	20
40	FABACEAE	6			5		24	35
41	FLACOURTIACEAE	1			1		1	3
42	GENTIANACEAE						2	2
43	GESNERIACEAE						3	3
44	GRAMINEAE	32	2	1	2		41	78
45	GUTTIFERAE	1			1		3	5
46	HALORAGACEAE						2	2
47	HIPPOCRATAACEAE						1	1
48	ICACINACEAE						1	1
49	IRIDACEAE						2	2
50	JUNCACEAE						1	1
51	LAMIACEAE	1		1	2		6	10
52	LAURACEAE	3					3	6
53	LEMNACEAE						1	1
54	LENTIBULARIACEAE	3					3	6
55	LILIACEAE						2	2
56	LINACEAE						1	1
57	LOGANIACEAE						1	1
58	LORANTHACEAE						1	1
59	LYTHRACEAE	4					5	9
60	MALPIGHIACEAE						1	1
61	MALVACEAE	5					4	9
62	MELASTOMATAACEAE	8			2		3	13
63	MELIACEAE						1	1
64	MENISPERMACEAE						1	1

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No.	Name of Family	Sp. nov.	Gen. nov.	Comb. nov.	var. nov.	ssp. nov.	New Rec.	Total
65	MENYANTHACEAE	3						3
66	MIMOSACEAE						3	3
67	MOLLUGINACEAE						1	1
68	MORACEAE				1		3	4
69	MUSACEAE	3						3
70	MYRSINACEAE	1					3	4
71	MYRTACEAE	1					4	5
72	NYCTAGINACEAE						2	2
73	OLEACEAE				1		1	2
74	ORCHIDACEAE	15	1	4	6		62	88
75	OROBANCHACEAE	1						1
76	OXALIDACEAE	2						2
77	PANDANACEAE						1	1
78	PASSIFLORACEAE						2	2
79	PEDALIACEAE						1	1
80	PERIPLOCACEAE		1					1
81	PHYTOLACCACEAE						1	1
82	PIPERACEAE	3			1		1	5
83	PODOSTEMACEAE	3					3	6
84	POLYGALACEAE	1					4	5
85	POLYGONACEAE						2	2
86	PORTULACACEAE				2	1		3
87	RHAMNACEAE						1	1
88	RUBIACEAE	20		1	3		12	36
89	RUTACEAE				1		2	3
90	SAPOTACEAE	1					1	2
91	SCROPHULARIACEAE	3			1		5	9
92	SIMAROUBACEAE						1	1

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No.	Name of Family	Sp. nov.	Gen. nov.	Comb. nov.	var. nov.	ssp. nov.	New Rec.	Total
93	SOLANACEAE						1	1
94	STERCULIACEAE						4	4
95	SYMPLOCACEAE					1	2	3
96	TACCACEAE						1	1
97	THYMELEACEAE						1	1
98	TILIACEAE						1	1
99	TRICHOPODACEAE						1	1
100	URTICACEAE						2	2
101	VERBENACEAE				1		9	10
102	VITACEAE	1						1
103	ZINGIBERACEAE	8			1		6	15

An analysis of the percentage of new reports from Kerala since Gamble might reveal the reason for the high percentage of increase of taxa in certain families occurring here. Eight families with the highest percentage of new reports are shown in Table 2.

Table 2. Families with 15 or more new reports in comparison with Gamble's Flora

No.	Family	No. of spp. in Gamble	Addl. spp. since Gamble	Total	% of new reports since Gamble
1	ARACEAE	26	18	44	69.2
2	CYPERACEAE	86	17	103	19.8
3	EUPHORBIACEAE	102	20	122	19.6
4	FABACEAE	122	35	157	28.7
5	GRAMINEAE	188	78	266	41.5
6	ORCHIDACEAE	74	88	162	118.9
7	RUBIACEAE	128	36	164	28.1
8	ZINGIBERACEAE	17	15	32	88.2

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From Table 2, the percentage of new taxa recorded, reveal that Orchidaceae, Zingiberaceae and Araceae are the families which show a very high increase in number since Gamble. This may be due to the fact that these families were extensively studied by specialists of those families. Students of Taxonomy who wish to study these families are therefore subjected to serious limitations if their consultation and reference is limited to Gamble's Flora alone.

Localities from where new reports have been made have also been recorded separately. The maximum number of reports are from Silent Valley - 36 (Palakkad Dt.) Chandanathode - 33 (Kannur Dt.) and Thenmala - 21 (Kollam Dt.). Localities with 5 or more reports include Agasthyamala (15), Thenhipalam (11), Peerumedu (11), Bonaccord (10), Ponmudi (10), Idukki (10), Nilambur (10), Devicolam (10), Attapadi (9), Anamudi (9), Nelliampathi (9), Cochin (8), Peechi (8), Shenduruny (8), Sabarimala (6), Changanassery (6), Bramhagiri (6), Eravikulam (6), Tirunelli (6), Theerthundamala (6), Parambikulam (5), Kannothe (5), Parumba (5). In addition to this, there are many reports where localities are not mentioned specifically. They are grouped under three categories such as General: Travancore (25), General: Western Ghats (23), and General Malabar (6). Localities from where five or more new reports are made are shown in the map (Fig. 1).

An analysis of the different localities show that the new reports are chiefly from forest areas and high ranges of Western Ghats. The district-wise analysis shows that Kannur with 99 reports tops the list, followed by Palakkad with 95, Idukki 80, Thiruvananthapuram 68, Kollam 57, Kozhikode 43, Wynad 39, Thrissur 31, Malappuram 27, Eranakulam 20, Pathanamthitta 19, Kottayam and Alappuzha 17 each and Kasaragod 15. The large number of reports from Kannur, Palakkad, Idukki, Thiruvananthapuram, Kollam, Kozhikode etc. may be due to more exploratory floristic studies conducted in these regions. Reports below five taxa per locality also support the above statement. The study also indicates that forested areas in the comparatively undisturbed mountain regions harbour a rich flora, further thorough explorations of which may reveal the presence of more additional or unknown taxa.

A list of localities arranged district-wise is given in Table 3, with their respective reference numbers, provided in the enumeration.

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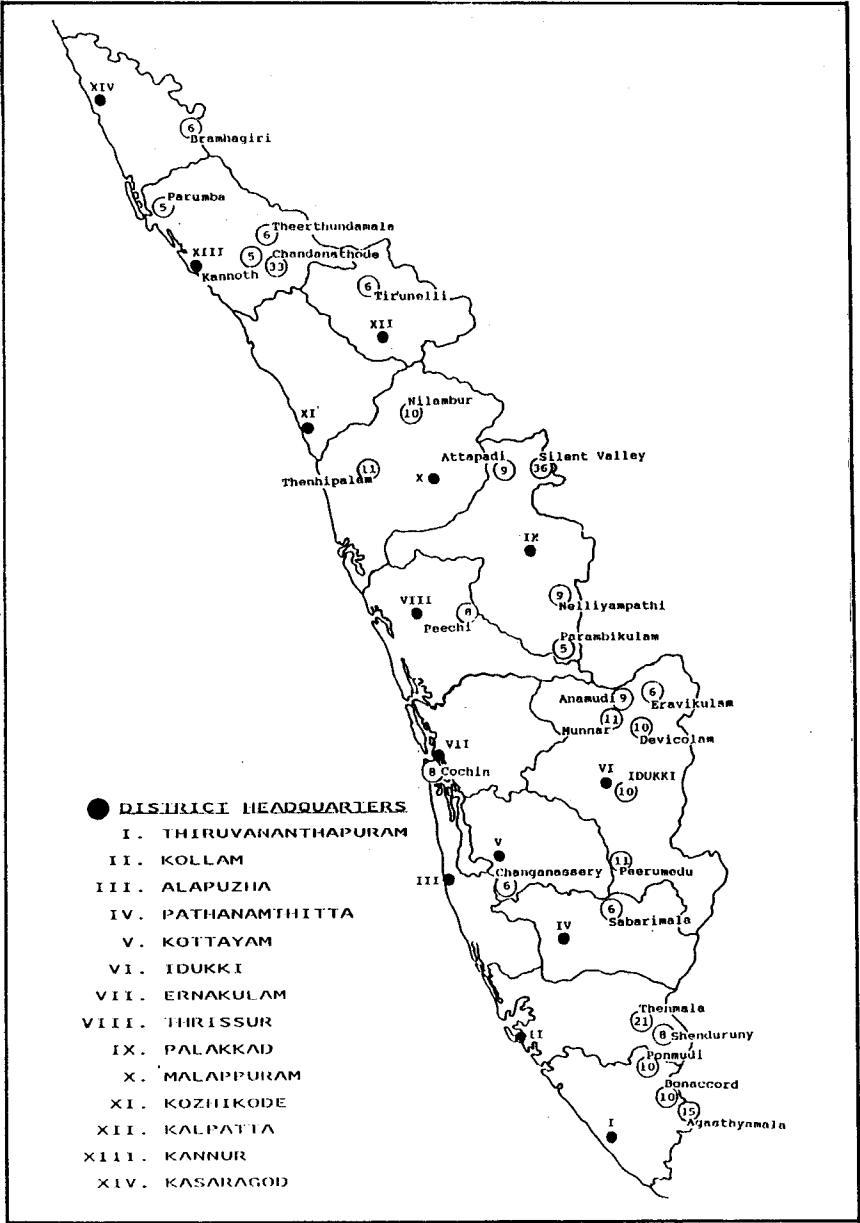


Fig. 1. Map of Kerala with localities from where the largest number of new taxa reported.

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Table 3. Localities and their Reference Numbers

Locality	Reference number	Locality	Reference number
Thiruvananthapuram	I	Nedumudi	4
Agasthyamala	1	Thakazhi	5
Athiramala	2	Thanneermukkam	6
Bonaccord	3	Thotapally	7
Chemungi	4	Thrikkunnapuzha	8
Kallar	5	Vembanad	9
Karyavattom	6	Pathanamthitta	IV
Kottur	7	Adoor	1
Kovalam	8	Chalakkayam	2
Neyyar	9	Kakki	3
Palode	10	Kalanjoor	4
Pattampara	11	Kochu Pampa Hills	5
Pattom	12	Konni	6
Ponmudi	13	Pambavalley	7
Vellewamala	14	Ponnambalamedu	8
Veli	15	Ranni	9
Walayar	16	Sabarimala	10
Kollam	II	Kottayam	V
Acchankovil	1	Changanassery	1
Aryankavu	2	Kurisumala	2
Chandanathopu	3	Thiruvalla	3
Cheenikkala	4	Idukki	VI
Kulathurpuzha	5	Adimali	1
Moozhiyar	6	Anamala hills	2
Sasthamkotta	7	Anamudi	3
Shenduruny	8	Devicolam	4
Thenmala	9	Eravikulam	5
Palkulangara	10	Kanjiyar	6
Pandymotta	11	Kumali	7
Pongumala	12	Meenmutty	8
Punalur	13	Moolakkayam	9
Yerur	14	Moolamattam	10
Alappuzha	III	Munnar	11
Ambalapuzha	1	Pachakannam	12
Cherthala	2	Peerumedu	13
Mannarshala	3	Poonjar	14

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Locality	Reference number
Project area	15
Rajamala	16
Thekkadi	17
Udumbanchola	18
Vagavuraii	19
Vazhukkapara	20
Ernakulam	VII
Alwaye	1
Cherai	2
Chottanikkara	3
Cochin	4
Malayattur	5
Muvattupuzha	6
Neriamangalam	7
North Parur	8
Thrissur	VIII
Anakayam	1
Anthikad	2
Athirapally	3
Chalakudi	4
Guruvayur	5
Pavartty	6
Peechi	7
Poringalkuthu	8
Pullamkandam	9
Sholayar	10
Valappad	11
Vazhachal	12
Vellanikkara	13
Palakkad	IX
Attapadi	1
Dhoni hills	2
Kanjikode	3
Kanjirapuzha	4
Karapara	5
Karivara	6
Kunthipuzha	7
Madampati	8

Locality	Reference number
Malampuzha	9
Mannar	10
Mandampotti	11
Mannarghat	12
Mukkali	13
Muthikulam	14
Nelliyampathi	15
Nemmara	16
Parambikulam	17
Silent Valley	18
Sispara Ghat	19
Valpara	20
Walakkad (Silent Valley)	21
Walayar	22
Malappuram	X
Chelari	1
Chemmaniyod	2
Idimuzhikkal	3
Kottakkal	4
Nilambur	5
Parappanangadi	6
Thenhipalam	7
Vallikkunnu	8
Kozhikode	XI
Adivaram	1
Ambumala	2
Badagara	3
Bey pore	4
Devagiri	5
Feroke	6
Jeerakapara	7
Kadalundi	8
Kanjirakadavu	9
Kakkayam	10
Kalarimala	11
Kallai	12
Kottampara	13
Malabar Coast	14

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Locality	Reference number
Pannikkode	15
Peruvannamuzhi	16
Pokkunnamala	17
Vellarimala	18
Wynad	XII
Begur	1
Chundale	2
Mananthavadi	3
Nadgani	4
Pakshipathalam	5
Periya	6
Pookottu Lake	7
Poothumoola	8
S. Battery	9
Thirunelli	10
Tholpetty	11
Vythiri	12
Kannur	XIII
Aduthila	1
Ambayathode	2
Aralam	3
Baveli	4
Chandanathode	5
Cherkala	6
Ezhimala	7
Kalliassery	8
Kannoth	9
Karimbam	10
Madai	11
Madaipara	12
Mattannur	13
Mukkarikandam	14
Muzhappilangadi	15
Nedumpoyil	16
Panoth	17
Parumba	18

Locality	Reference number
Payangadi	19
Thalassery	20
Taliparamba	21
Theerthundamala	22
Sea Shore	23
Kasaragod	XIV
Bekkal	1
Bela	2
Bremhagiri	3
Hosdurg	4
Mulleriya	5
Neeleswaram	6
General - Malabar	XV
Hills of Malabar	1
General - Travancore	XVI
Chumbuvurrai	1
High Range	2
Kadalar Valley	3
Kulkunthal	4
Mannavanshola	5
Neman Hills	6
Ottapara ridge	7
Pandyanpara hill top	8
Umayar	9
Uruliar	10
General - Western Ghats	XVII
Kozhikode	1
Kannur	2
Kottayam	3
Thiruvananthapuram	4
Not specified by the original collectors	XVIII
Not Located	XIX

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ENUMERATION OF THE ADDITIONAL TAXA SINCE GAMBLE

Sl.No.	Name of the Plant	Ref. No.	Locality
<u>ACANTHACEAE</u>			
1.	<i>Blepharis repens</i> (Vahl) Roth	196	XIII-23
2.	<i>Dyschoriste erecta</i> (Burm. f.) O. Kuntze	347	II-9
3.	<i>Hemigraphis latebrosa</i> (Roth.) Nees	196	XII-11
4.	<i>Hemigraphis venosa</i> Clarke	200	XIII-4
5. *	<i>Justicia ekakusuma</i> Pradeep & Sivar.	186	XIII-11
6.	<i>Justicia nilgherrensis</i> (Nees) Wall. ex T. Anders	200	XIV-3
7. **	<i>Kanjarum palghatense</i> Ramamurthy	203	IX
8.	<i>Lepidagathis chlorostachya</i> Nees	176	VI-8
9. *	<i>Lepidagathis keralensis</i> Madhu. & Singh	85	XIII-12
10.	<i>Mackenzia gracilis</i> (Bedd.) Brem.	23	VI-11
11.	<i>Nilgiranthus urceolaris</i> (Gamble) Brem.	201	XII-6, XIII-5, 21
12.	<i>Pleocaulis sessilis</i> (Nees) Brem.	197	XIV-3
13.	<i>Staurogyne glutinosa</i> (Wall. ex Clarke) O.Kuntze	33	VIII-2
14. @	<i>Thunbergia bicolor</i> (Wight) Manilal & Suresh	112	IX-21
<u>ALISMATACEAE</u>			
15.	<i>Limnocharis flava</i> (Linn.) Buch.	78	III-1
16.	<i>Wiesneria triandra</i> (Dalz.) Micheli	66	I-7
<u>AMARANTHACEAE</u>			
17.	<i>Alternanthera tenella</i> Colla.	314	VII-4
18.	<i>Amaranthus polygonoides</i> Linn.	143	V-1
19.	<i>Cyathula tomentosa</i> Moq.	347	II-9
20.	<i>Telanthera ficoidea</i> Moq.	347	II-9
<u>ANACARDIACEAE</u>			
21. #	<i>Nothopegia beddomei</i> Gamble var. <i>wynaadica</i> Ellis & Chandra.	37	XIII-5
<u>ANNONACEAE</u>			
22.	<i>Annona glabra</i> Linn.	321	III-6
23.	<i>Goniothalamus wynaadensis</i> (Bedd.) Ramachandran & V.J. Nair	197	XIII-2

** - New Genus from Kerala; * - New Species from Kerala; \$ - New Sub-species from Kerala;
- New Variety from Kerala; @ - New Combination.

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Sl.No.	Name of the Plant	Ref. No.	Locality
24.	<i>Orophea erythrocarpa</i> Bedd.	198	XIII-17
25. *	<i>Orophea malabarica</i> Sasi. & Sivar.	252	XVII
26. *	<i>Polyalthia shendurunii</i> Basha & Sasi.	22	II-8
<u>APIACEAE</u>			
27.	<i>Eryngium foetidum</i> Linn.	38	XIII-5
28. *	<i>Peucedanum josephianum</i> Wadhwa & Chowdhery	384	I-1
<u>APOCYNACEAE</u>			
29.	<i>Anodendron rhinosporum</i> Thw.	367	IX-15
30.	<i>Hunteria zeylanica</i> (Retz.) Gardn. ex Thw.	172	VI-15
31.	<i>Voacanga grandifolia</i> (Miq.) Rolfe	354	III
<u>APONOGETONACEAE</u>			
32. *	<i>Aponogeton appendiculatus</i> van Bruggen	21	III-9
<u>ARACEAE</u>			
33. *	<i>Amorphophallus bonaccordensis</i> Sivadasan & Mohanan	285	I-3
34. *	<i>Amorphophallus nicolsonianus</i> Sivadasan	281	IX-18, XII-3
35. *	<i>Amorphophallus smithsonianus</i> Sivadasan	282	I-1
36. *	<i>Arisaema agasthyanum</i> Sivadasan & Sathish.	289	I-1
37. *	<i>Arisaema attenuatum</i> Barnes & Fischer	263	VI-11
38. *	<i>Arisaema auriculata</i> Barnes	263	X-5, XII
39. *	<i>Arisaema muricaudatum</i> Sivadasan	280	XII-12
40. *	<i>Arisaema peltatum</i> Fischer	263	VI-11
41. *	<i>Arisaema psittacus</i> Barnes	263	XVI-1
42. *	<i>Arisaema sarracenioides</i> Barnes & Fischer	263	XVI
43.	<i>Caladium bicolor</i> Vent.	347	II-9
44. *	<i>Lagenandra nairii</i> Ramamurthy & Rajan	207	VIII-3
45. #	<i>Lagenandra toxicaria</i> Dalz. var. <i>barnesii</i> Fischer	263	XII-4
46.	<i>Lasia spinosa</i> (Linn.) Thwaites	288	XI-15
47. *	<i>Pothos crassipedunculatus</i> Sivadasan & Mohanan	287	I-1
48. *	<i>Pothos keralensis</i> Pandurangan & V.J. Nair	175	VI-8

Additions to the Flora of Kerala

Sl.No.	Name of the Plant	Ref. No.	Locality
49.	<i>Scindapsus officinalis</i> Schott	347	II-9
50. *	<i>Theriophonum fischeri</i> Sivadasan	279	IX-1
<u>ARALIACEAE</u>			
51. *	<i>Schefflera chandrasekharanii</i> Ramamurthy & Rajan	205	VI-11
52.	<i>Schefflera roxburghii</i> Gamble	347	II-9
<u>ARECACEAE</u>			
53.	<i>Calamus brandisti</i> Becc.	130	I-1, II-11
54. *	<i>Calamus dransfieldii</i> Renuka	236	IX-2
55.	<i>Calamus metzianus</i> Schlecht.	237	X-5
56.	<i>Calamus nagbettai</i> Fernandez & Dey	246	II-8
57. *	<i>Calamus neelagiricus</i> Renuka	239	IX-18
58. *	<i>Calamus vattayila</i> Renuka	238	II-9 X-5,XII
<u>ARISTOLOCHACEAE</u>			
59. *	<i>Aristolochia krisagathra</i> Sivar. & Pradeep	316	XVII-4
60. *	<i>Thottea dinghoui</i> Swarup.	355	II-6
61. *	<i>Thottea duchartrei</i> Sivar., Babu & Indu.	297	X-4
62. *	<i>Thottea idukkiana</i> Panduragan & V.J. Nair	174	VI-6
63. *	<i>Thottea ponmudiana</i> Sivar.	294	I-13
<u>ASCLEPIADACEAE</u>			
64. *	<i>Ceropegia barnesii</i> Bruce & Chatterjee	133	XIX
65.	<i>Ceropegia elegans</i> Wall.	197	XIII-5
66.	<i>Ceropegia omissa</i> H. Huber	133	XIX
67.	<i>Genianthus laurifolius</i> (Roxb.) Hook. f.	200	XIII-9
68.	<i>Gymnema khandalense</i> Sant.	255	VIII-12
69.	<i>Gymnema montana</i> (Roxb.) Hook. f. var. <i>pubiflora</i> Hook. f.	198	XIII-5
70.	<i>Hemidesmus indicus</i> (Linn.) Schult, var. <i>pubescens</i> (Wight & Arn.) Hook. f.	200	XII-11,XIII-2
71. @	<i>Heterostemma decanense</i> (Talb.) Swarup. & Mangaly	356	VIII-7
72. *	<i>Heterostemma vasudevani</i> Swarup. & Mangaly	356	VIII-7
73.	<i>Hoya retusa</i> Dalz.	347	II-5

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Sl.No.	Name of the Plant	Ref. No.	Locality
74.	<i>Marsdenia raziana</i> Yog. & Subraman.	255	II-8
75.	<i>Marsdenia tirunelvelica</i> Henry & Subraman.	246	II-12
76.	<i>Tylophora dalzellii</i> Hook. f.	199	XII-10
77.	<i>Tylophora subramanii</i> Henry	274	VI-16

ASTERACEAE

78. *	<i>Anaphalis barnesii</i> Fischer	263	XVI-2
79.	<i>Eleutheranthera ruderalis</i> (Sw.) Sch.-Bip.	248	VII-2, VIII-7
80.	<i>Erigeron canadensis</i> Linn.	347	XVI-9
81.	<i>Mikania cordata</i> B.L. Robin.	132	V, XIII-5
82.	<i>Parthenium hysterophorus</i> Linn.	214	XVIII
83.	<i>Spilanthes ciliata</i> H.B.K.	313	X-5
84.	<i>Spilanthes radicans</i> Jacq.	313	X-5, XI-6
85.	<i>Struchium sparganophorum</i> (Linn.) O.Kuntze	373	I
86.	<i>Tithonia diversifolia</i> (Hemsl.) A.Gray	347	II-9
87. *	<i>Vernonia anaimudica</i> Shetty & Vivek.	273	VI-16
88.	<i>Vernonia dalzelliana</i> Drumm & Hutch.	197	XIV-3
89.	<i>Wedelia trilobata</i> (Linn.) A.S. Hitchc.	315	XI

BALSAMINACEAE

90.	<i>Hydrocera triflora</i> Wight & Arn.	152	III
91.	<i>Impatiens acaulis</i> Arn.	197	XIII-5
92.	<i>Impatiens dasysperma</i> Wight	197	XIII-21
93. *	<i>Impatiens munnarensis</i> Barnes	263	VI-11
94. *	<i>Impatiens pandata</i> Barnes	263	VI-3
95. *	<i>Impatiens sivarajanii</i> Muktesh & Stephen	129	IX-18

BEGONIACEAE

96. *	<i>Begonia aliciae</i> Fischer	263	XVI-3
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BIXACEAE

97.	<i>Scolopia pusilla</i> (Gaertn.) Willd.	326	XVI-6
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BOMBACACEAE

98. *	<i>Cullenia rosayroana</i> Koster.	81	XVIII
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Additions to the Flora of Kerala

Sl.No.	Name of the Plant	Ref. No.	Locality
<u>BORAGINACEAE</u>			
99.	<i>Cordia cylindristachya</i> Roem .& Schult.	232	II-7
100. *	<i>Heliotropium keralense</i> Sivar. & Manilal	302	XI
<u>BURMANNIACEAE</u>			
101.	<i>Burmanna championii</i> Thw.	63	IX-18
102. *	<i>Burmanna indica</i> Jonker	263	XVI
103. **	<i>Haplothismia exannulata</i> Airy Shaw	2	IX-17
<u>CABOMBACEAE</u>			
104.	<i>Cabomba aquatica</i> Aubl.	5	VII-4
<u>CACTACEAE</u>			
105.	<i>Cereus forbesii</i> Foerst.	305	XI-6
<u>CAESALPINIACEAE</u>			
106.	<i>Caesalpinia jayabo</i> Maza.	347	II-8
107. *	<i>Cassia intermedia</i> Sharma,Vivek. & Radhak.	267	XIX
108.	<i>Cassia pumila</i> Lam.	200	XIII-20
109. #	<i>Humboldtia unijuga</i> Bedd. var. <i>trijuga</i> Joseph & Chandra.	68	I-3
<u>CAMPANULACEAE</u>			
110.	<i>Lobelia alsinoides</i> Lam.	113	XVIII
111.	<i>Lobelia zeylanica</i> Linn.	295	I-13
<u>CAPPARIDACEAE</u>			
112.	<i>Capparis cleghornii</i> Dunn	197	XIII-5
113.	<i>Capparis fusifera</i> Dunn	67	I-9
114.	<i>Cleome rutidosperma</i> DC.	190	I-8, II-6,X-6
115.	<i>Cleome spinosa</i> Jacq.	322	IX-17
<u>CARICACEAE</u>			
116. #	<i>Carica papaya</i> Linn. var. <i>flava</i> Kumar & Abraham	133	XVI

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>CELASTRACEAE</u>			
117. *	<i>Cassine kedarnathii</i> Sasi. & Swarup.	254	IX-1
118.	<i>Glyptopetalum grandiflorum</i> Bedd.	197	XIII-5
119.	<i>Reissantia grahamii</i> (Wight) Ding Hou	144	II-9
<u>CHENOPODIACEAE</u>			
120.	<i>Pisonia aculeata</i> Linn.	197	XIII-13
<u>CHLORANTHACEAE</u>			
121.	<i>Sarcandra irvingbaileyi</i> Swamy	263	XV-1
<u>COMMELINACEAE</u>			
122.	<i>Commelina indehiscens</i> Barnes	263	XVI-2
123. *	<i>Cyanotis arcotensis</i> Rolla Rao	215	IX
124.	<i>Cyanotis cerifolia</i> Rolla Rao & Kammathy	196	XIII-5,16
125.	<i>Murdannia lanuginosa</i> (Wall. ex Clarke) Brueckn.	197	XII-10
<u>CONVOLVULACEAE</u>			
126.	<i>Argyreia hirsuta</i> Arn.	347	XVI-10
127.	<i>Evolvulus nummularius</i> Linn.	301	X-6, XI-5
128.	<i>Ipomoea macrantha</i> Roem. & Schult.	290	XI-8
129. \$	<i>Ipomoea prescaprae</i> (Linn.) Sweet. ssp. <i>brasiliensis</i> (Linn.) Oostst.	224	II, II-13
130.	<i>Ipomoea triloba</i> Linn.	24	IV-2
131. *	<i>Lepistemon verdcourtii</i> P. Mathew & Biju	114	IV-6
132.	<i>Merremia cissoides</i> (Lam.) Hall. f.	17	I-12
133.	<i>Merremia hirta</i> (Linn.) Merrill	18	X-7
134.	<i>Neuropeltis malabarica</i> V. Oostst.	263	XV
<u>CRASSULACEAE</u>			
135.	<i>Kalanchoe glandulosa</i> Hochst. ex A. Rich.	366	IX
<u>CUCURBITACEAE</u>			
136. *	<i>Cucumella silentvalleyii</i> Manilal, Sabu & P. Mathew	94	IX-18

Additions to the Flora of Kerala

Sl.No.	Name of the Plant	Ref. No.	Locality
137. #	<i>Cucurbita maxima</i> Duch. var. <i>badagarensis</i> Mudaliar	192	XI-3
138.	<i>Dicaelospermum ritchiei</i> Clarke	12	V-2
139.	<i>Kedrostis rostrata</i> (Rottl.) Cong.	347	II-9
140.	<i>Melothria ritchiei</i> Chakrav.	134	XIX
141.	<i>Momordica balsamina</i> Descourt.	347	II-2
142.	<i>Trichosanthes brevibracteata</i> Kundu	78	XIX
143.	<i>Trichosanthes brevibracteata</i> Kundu var. <i>sublobata</i> Kundu	78	XIX
144.	<i>Trichosanthes villosula</i> Cong.	347	XVI
145. #	<i>Zehneria maysorensis</i> (Wight & Arn.) Arn. var. <i>oblonga</i> Prasad & Mini	189	VI-7

CYPERACEAE

146.	<i>Cyperus amabilis</i> Vahl	320	X-2
147.	<i>Cyperus longus</i> Linn.	320	X-5
148.	<i>Eleocharis spiralis</i> (Rottb.) Roem. & Schult.	196	XIII-20
149. #	<i>Fimbristylis aestivalis</i> (Retz.) Vahl var. <i>trichopoda</i> Kern	79	XV
150. *	<i>Fimbristylis dauciformis</i> Govind.	78	XIX
151.	<i>Fimbristylis eragrostis</i> (Nees) Hance	196	XIII-5
152. *	<i>Fimbristylis hirsutifolia</i> Govind.	51	X-7
153. *	<i>Fimbristylis humerosa</i> Govind.	53	VIII-8
154. *	<i>Fimbristylis hyalina</i> Govind. et Sasi.	55	VIII-3
155. *	<i>Fimbristylis perspicua</i> Govind. et Sasi.	55	VIII-7
156. *	<i>Fimbristylis pseudomicrocarya</i> Govind.	51	IX-15
157. *	<i>Fimbristylis swamyii</i> Govind.	50	IX-15
158. *	<i>Fuirena ponmudiensis</i> Ravi & Anil.	229	I-13
159.	<i>Kyllinga pumila</i> Michx.	54	VIII-7
160.	<i>Scleria biflora</i> Roxb.	16	XI-16
161. #	<i>Scleria littosperma</i> var. <i>muricata</i> Govind.	49	XVIII
162.	<i>Scleria pergracilis</i> (Nees) Kunth.	16	VI-20

DIPTEROCARPACEAE

163.	<i>Balanocarpus erosa</i> Bedd.	196	XIII-5
164.	<i>Hopea erosa</i> (Bedd.) Slooten.	197	XIII-5
165.	<i>Vateria macrocarpa</i> B.L.Gupta	352	IX-14

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>EBENACEAE</u>			
166. *	<i>Diospyros ghatensis</i> Ramesh & DeFranceschi	210	II-14, IX-22
167.	<i>Diospyros hirsuta</i> Linn. f.	146	II
168. *	<i>Diospyros pyrrocarpoides</i> Remesh & DeFranceschi	210	II-8, IX-8
169.	<i>Diospyros saldanhae</i> Kosterm.	200	XII-10, XIII-22, XIV-3
170.	<i>Diospyros trichophylla</i> Alston	172	VI-8
<u>ELATINACEAE</u>			
171.	<i>Bergia capensis</i> Linn.	152	III-1, V-1
<u>ERIOCAULACEAE</u>			
172. *	<i>Eriocaulon kasaragodense</i> Ansari, V.J.Nair & N.C. Nair	10	XIV-1
173. *	<i>Eriocaulon keralense</i> Ansari, V.J.Nair & N.C.Nair	10	XIV-2
<u>EUPHORBIACEAE</u>			
174.	<i>Antidesma bunius</i> (Linn.) Spr.	197	XIV-3
175.	<i>Claoxylon anomalum</i> Hook. f.	195	VI-15
176. *	<i>Cleistanthus sankunnianus</i> Sivar. & Indu.	300	X-4
177. #	<i>Croton caudatus</i> Geisel. var. <i>obovoideus</i> Balakr. & Chakrab.	13	II-1, IV-7, IX-17
178.	<i>Dalechampia taminifolia</i> Lam.	357	I
179.	<i>Euphorbia cotinoides</i> Miq.	19	IV-4
180. #	<i>Euphorbia katrajensis</i> Gage. var. <i>kasaragodensis</i> V.J.Nair, Binoj. & Ansari	157	XIV-2
181.	<i>Homonoia retusa</i> (Grah. ex Wight) Muell.- Arg.	196	XIII-9
182.	<i>Jatropha tanjorensis</i> Ellis & Saroja	196	XIII-20
183.	<i>Mallotus intercedens</i> Pax & Hoffm.	78	XIX
184.	<i>Margaritaria indica</i> (Dalz.) Airy Shaw	194	VI, XII
185.	<i>Meineckia parvifolia</i> (Wight) Webster	306	XI
186. *	<i>Ostodes integrifolia</i> Airy Shaw	3	XVIII
187. *	<i>Phyllanthus kozhikodianus</i> Sivar. & Manilal	309	X-7
188.	<i>Phyllanthus maderaspatensis</i> Linn.	347	II-9
189.	<i>Phyllanthus tenellus</i> Roxb.	36	X-8, I-10
190.	<i>Reidia gageana</i> Gamble	67	I-2,3

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Sl.No.	Name of the Plant	Ref. No.	Locality
191. *	<i>Sauropus saksenianus</i> Manilal, Prasannakumar & Sivar.	91	IX-18
192. *	<i>Sauropus varierii</i> Sivar. & Indu	299	X-4
193.	<i>Suregada angustifolia</i> (Muell.- Arg.) Airy Shaw	109	XI-6
<u>FABACEAE</u>			
194.	<i>Aeschynomene americana</i> Linn.	26	IV-9
195.	<i>Canavalia podocarpa</i> Dunn	180	II
196.	<i>Centrosema virginianum</i> (Linn.) Benth.	364	XVIII
197.	<i>Crotalaria clarkei</i> Gamble	199	XII-10
198.	<i>Crotalaria incana</i> Linn.	222	I
199.	<i>Crotalaria willdenowiana</i> DC.	152	IV-7
200.	<i>Dalbergia acaciifolia</i> Dalz.	136	XIV-3
201. *	<i>Dalbergia beddomei</i> Thoth.	361	IX-18
202.	<i>Dalbergia benthamii</i> Prain	135	VII-6
203. #	<i>Dalbergia horrida</i> (Dennst.) Mabberley var. <i>glabrescens</i> (Prain) Thoth. & K.K.N. Nair	363	II-9
204.	<i>Dalbergia pseudo-sisso</i> Miq.	136	IV-9
205. *	<i>Dalbergia travancorica</i> Thoth.	360	XVI-2
206.	<i>Derris brevipes</i> Baker var. <i>coriacea</i> Baker emed. Thoth.	358	IX-1
207. #	<i>Derris brevipes</i> Baker var. <i>travancorensis</i> Thoth.	359	I-14
208. *	<i>Derris thothathri</i> Bennet	14	XVIII
209.	<i>Derris velutinum</i> DC.	78	XIX
210.	<i>Desmodium scorpiurus</i> (Swartz) Desvaux	34	XI
211.	<i>Desmodium tortuosum</i> (Sw.) DC.	32	I-6
212.	<i>Desmodium uncinatum</i> (Jacq.) DC.	244	VI-11
213.	<i>Erythrina mysorensis</i> Gamble	347	VI-9
214. #	<i>Geissaspis tenella</i> Benth., var. <i>malabarica</i> Sivar. & Babu	296	X-7
215.	<i>Gliricidia maculata</i> H.B. & K.	347	II-9
216. #	<i>Glycine wightii</i> Verdcourt sub. sp. <i>wightii</i> Verdcourt var. <i>coimbatorensis</i> Ajith Sen	4	VI-7,17
217.	<i>Indigofera benthamiana</i> Hance	225	II-3
218.	<i>Indigofera teysmanii</i> Miq.	74	XI-12
219. *	<i>Kunstleria keralensis</i> Mohanan & N.C. Nair	117	IV-1
220.	<i>Mezoneuron hymenocarpum</i> Prain	350	VIII-12
221.	<i>Mucuna gigantea</i> DC.	152	III-3

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Sl.No.	Name of the Plant	Ref. No.	Locality
222. #	<i>Mucuna pruriens</i> (L)DC. var. <i>theekkadiensis</i> Thoth. et Ravikumar.	365	VI-17
223.	<i>Ormocarpum sennoides</i> (Willd.) DC.	196	XIII-9
224.	<i>Ougeinia oojeinensis</i> (Roxb.) Hochr.	213	IX-12
225.	<i>Phaseolus adenanthus</i> Meyer	152	III-7
226.	<i>Pueraria phaseoloides</i> (Roxb.) Benth.	27	IV-9
227. *	<i>Tephrosia travancorica</i> Thoth. & Das	362	XVIII
228. *	<i>Zornia quilonensis</i> Ravi	220	II

FLACOURTIACEAE

229. #	<i>Casearia rubescens</i> Dalz. var. <i>gamblei</i> Mukh.	125	VI-13
230. *	<i>Hydnocarpus pendulus</i> Manilal, Sabu & Sivar.	95	IX-18
231.	<i>Taraktogenus kurzii</i> King	347	II-9

GENTIANACEAE

232.	<i>Exacum walkeri</i> Griseb.	121	I-13
233.	<i>Swertia lawii</i> (Wight ex Clarke) Burkill	197	XIII-5

GESNERIACEAE

234.	<i>Didymocarpus humboldtiana</i> Gardn.	347	XVI-8
235.	<i>Didymocarpus macrostachya</i> Barnes	263	XVI-7
236.	<i>Epithema carnosum</i> Benth. var. <i>hispida</i> Clarke	197	XIII-16

GRAMINEAE

237.	<i>Acroceras munroanum</i> (Balansa) Henr.	331	II,III
238.	<i>Alloteropsis semialata</i> (R.Br.) Hitch. var. <i>viatica</i> (Griff.) Ellis & Karthik.	77	XVII-1
239.	<i>Andropogon polyptychus</i> Steud. var. <i>deccanensis</i> Bor	269	XVIII
240.	<i>Apocopis mangalorensis</i> (Hochst.) Henry	77	XIII
241. *	<i>Arundinella kannanorica</i> V.J. Nair, Sreekumar & N.C. Nair.	163	XIV-2
242.	<i>Arthraxon lanceolatus</i> (Roxb.) Hochst.	162	VI-11
243.	<i>Arthraxon nudus</i> (Steud.) Hochst.	77	XVII-2
244.	<i>Arthraxon villosus</i> Fischer.	162	VI-11
245.	<i>Axonopus compressus</i> (Sw.) P.Beauv.	77	XVII-1,3

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Sl.No.	Name of the Plant	Ref. No.	Locality
246. *	<i>Bhidea fischeri</i> Sreekumar & Shetty.	344	XIII-14
247.	<i>Bothriochloa intermedia</i> (R.Br.) A. Camus var. <i>punctata</i> (Roxb.) Keng	77	XVII-1
248. *	<i>Bothriochloa parameswaranii</i> Sreekumar, Malathi & V.J. Nair.	330	VI-5
249. **	<i>Chandrasekharania keralensis</i> V.J. Nair, Ramachandran & Sreekumar	160	XIII-9
250. *	<i>Chrysopogon tadulingamii</i> Sreekumar, V.J. Nair & N.C. Nair	339	XII-6
251.	<i>Coix aquatica</i> Roxb.	77	VI-2, XVII-1
252. #	<i>Cymbopogon martinii</i> (Roxb.) Wats. var. <i>sofia</i> Gupta	56	XVIII
253.	<i>Cyrtococcum deccanense</i> Bor	77	XVII-3
254. *	<i>Dimeria borii</i> Sreekumar, V.J.Nair & N.C.Nair	335	XI-7
255.	<i>Dimeria ceylanica</i> Bor	77	VII-4
256. *	<i>Dimeria copeana</i> Sreekumar, V.J.Nair & N.C. Nair	334	III-8
257. *	<i>Dimeria chelariensis</i> Ravi	227	X-1
258.	<i>Dimeria deccanensis</i> Bor	90	IX-21
259. *	<i>Dimeria eradii</i> Ravi	227	X-7
260. *	<i>Dimeria jainii</i> Sreekumar, V.J.Nair & N.C.Nair	336	XI-17
261. *	<i>Dimeria kanjirapalliana</i> Jacob	58	VI-13
262. *	<i>Dimeria keralae</i> N.C.Nair, Sreekumar & V.J.Nair	154	XIII-18
263. *	<i>Dimeria kurumthotticalana</i> Jacob	58	VI-13
264. *	<i>Dimeria namboodiriana</i> Ravi et Mohanan	231	IV-8
265. *	<i>Dimeria raizadae</i> V.J.Nair, Sreekumar & N.C. Nair	164	XI-17
266. *	<i>Dimeria sivarajanii</i> Mohanan et Ravi	123	IV-5
267.	<i>Eragrostis cumingii</i> Steud.	124	I-15
268.	<i>Eragrostis subsecunda</i> (Lam.) Fourn.	327	II,III
269.	<i>Eragrostis tremula</i> (Lamk.) Hochst. ex Steud.	196	XIII-15
270. #	<i>Eragrostis uniloides</i> Nees var. <i>tremula</i> Jacob	58	V-3
271.	<i>Eragrostis zeylanica</i> Nees & Mey	158	XIV-4
272.	<i>Eulalia thwaitesii</i> (Hack.) O.Kuntze	269	VI-3
273.	<i>Garnotia exaristata</i> Gould.	379	XVIII
274.	<i>Garnotia longipila</i> Santos.	263	XVI
275.	<i>Garnotia tenella</i> (Arn. ex Miq.) Gould.	379	XVIII
276.	<i>Garnotia tenuis</i> Santos.	134	VII-4, XVI
277.	<i>Isachne fischeri</i> Bor	263	VI-3
278.	<i>Isachne gracilis</i> C.E. Hubb.	150	IX-18
279. *	<i>Isachne henryi</i> Srinivasan & Sreekumar	345	XII-8

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Sl.No.	Name of the Plant	Ref. No.	Locality
280.	<i>Isachne lutaria</i> Santos.	263	XVI
281. *	<i>Ischaemum agastyamalayanum</i> Sreekumar, Janarthanam & Henry	329	I-1
282. *	<i>Ischaemum calicutensis</i> Sreekumar, V.J.Nair & N.C. Nair	337	XI-17
283. *	<i>Ischaemum kannanorensis</i> Sreekumar, V.J.Nair & N.C. Nair	337	XIII-18
284. *	<i>Ischaemum copeanum</i> Sreekumar, V.J. Nair & N.C. Nair	343	XIII-6
285.	<i>Ischaemum indicum</i> (Houtt.) Merrill var. <i>longipilum</i> (Hack.) Bor	328	XIII-5
286.	<i>Ischaemum indicum</i> (Houtt.) Merrill var. <i>indicum</i> sub. var. <i>scrobiculatum</i> (Nees ex Steud.) Bor	328	III,XI
287. *	<i>Ischaemum jayachandranii</i> Ansari, Ramachandran & Sreekumar	11	XIV-6
288. *	<i>Ischaemum keralensis</i> Sreekumar, V.J. Nair & N.C. Nair	342	XVIII
289. *	<i>Ischaemum malabaricum</i> Sreekumar, V.J.Nair & N.C. Nair	341	XI-11,17 XIII-7,18
290. *	<i>Ischaemum nairii</i> V.J.Nair & Sreekumar	161	XI-9
291. *	<i>Ischaemum tadulingamii</i> N.C.Nair & Sreekumar	151	VI-5
292. *	<i>Ischaemum vembanadense</i> Patil & D'Cruz	178	III-11
293.	<i>Ischaemum zeylanicolum</i> Bor	158	XI, XII-12, XIII-5
294.	<i>Leptaspis urceolata</i> (Roxb.) R.Br.	77	II-9
295.	<i>Limnopoia meeboldii</i> (Fischer) C.E.Hubb.	156	VII-3,4 VIII-4
296.	<i>Lolium temulentum</i> Linn.	77	XVII-3
297. *	<i>Ochlandra ebracteata</i> Raizada & Chatterjee	191	I-7
298. *	<i>Oryza malampuzhaensis</i> Krishnaswamy & Chandra.	83	IX-9
299.	<i>Oryza perennis</i> Moench ssp. <i>balunga</i>	139	XVIII
300.	<i>Panicum auritum</i> Presl ex Nees	162	III-5
301.	<i>Panicum humidorum</i> Buch.- Ham. ex Hook. f.	202	XIII-3
302.	<i>Panicum psilopodium</i> Trin. var. <i>coloratum</i> Hook. f.	162	VIII-13
303.	<i>Paspalum canarae</i> (Steud.) Veldk. var. <i>fimbriatum</i> (Bor) Veldk.	198	XIII-5
304.	<i>Pennisetum orientale</i> L.C. Rich.	162	I-6
305.	<i>Pseudoxytenanthera stocksii</i> (Munro) Naithani	128	XIX
306.	<i>Rhynchelytrum repens</i> (Willd.) C.E. Hubb.	77	XVII-3
307.	<i>Setaria barbata</i> (Lam.) Kunth	162	I,II
308.	<i>Setaria homonyma</i> (Steud.) Chiov.	77	XVII-2

Additions to the Flora of Kerala

Sl.No.	Name of the Plant	Ref. No.	Locality
309. **	<i>Silentvalleya nairii</i> V.J. Nair, Sreekumar, Vajravelu & Bhargavan	165	IX-18
310.	<i>Sinarundinaria microphylla</i> (Munro) Chao & Renv.	80	VI-5
311. *	<i>Themeda sabarimalayana</i> Sreekumar & V.J. Nair	333	IV-10
312. *	<i>Tripogon anantaswamianus</i> Sreekuamr, V.J.Nair & N.C.Nair	340	VI-5
313. *	<i>Tripogon narayanii</i> Sreekumar, V.J.Nair & N.C.Nair	338	VI-5
314. *	<i>Zenkeria jainii</i> N.C. Nair, Sreekumar & V.J.Nair	153	VI-5
<u>GUTTIFERAE</u>			
315.	<i>Calophyllum austroindicum</i> Kosterm. Ex. P.F. Stevens	171	XIX
316. #	<i>Garcinia echinocarpa</i> Thw. var. <i>monticola</i> Maheshwari	87	XIV-2
317. *	<i>Garcinia rubro-echinata</i> Kosterm.	134	XIX
318.	<i>Mesua ferrea</i> Linn. ssp. <i>pulchella</i> Vesque.	86	VI-18
319.	<i>Mesua ferrea</i> Linn. ssp. <i>thwaitessi</i> Vesque.	86	XVI-4
<u>HALORAGACEAE</u>			
320.	<i>Laurembergia hirsuta</i> (Wight & Arn.) Schindl.	134	XIX
321.	<i>Myriophyllum tuberculatum</i> Roxb.	378	VII- 1
<u>HIPPOCRATEACEAE</u>			
322.	<i>Salacia beddomei</i> Gamble	197	XIII-5
<u>ICACINACEAE</u>			
323.	<i>Miquelia dentata</i> Bedd.	196	XIII-5
<u>IRIDACEAE</u>			
324.	<i>Aristea ecklonii</i> Baker	318	VI-5,11
325.	<i>Eleutherine bulbosa</i> (Miller) Urban	181	X-7, XIII-19
<u>JUNCACEAE</u>			
326.	<i>Juncus effusus</i> Linn.	274	VI-3, XII-12

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>LAMIACEAE</u>			
327.	<i>Anisomeles indica</i> O.Ktze. var. <i>albiflora</i> (Hassk.) Backer	303	XI
328.	<i>Eusteralis gracilis</i> (Dalz.) Panigrahi	197	XIII-15
329. *	<i>Gomphostemma keralensis</i> Vivek., Gopalan & Ansari.	383	VI-15
330.	<i>Hyptis capitata</i> Jacq.	370	V
331. @	<i>Leucas lavanduliifolia</i> Rees. var. <i>dceipiens</i> (Hook.f.) Chandr. & Srin.	25	VI
332.	<i>Leucas urticifolia</i> (Vahl.) R.Br.	197	XII-3
333. #	<i>Leucas vestita</i> Benth. var. <i>devicolamensis</i> Shetty & Vivek.	271	VI-19
334.	<i>Orthosiphon rubicundus</i> Benth. var. <i>hohenackeri</i> Hook. f.	197	XIII-4
335. #	<i>Pogostemon travancoricus</i> Bedd. var. <i>devicolamensis</i> Shetty & Vivek.	275	VI-3
336.	<i>Scutellaria oblonga</i> Benth.	115	IX-18, X-5.
<u>LAURACEAE</u>			
337. *	<i>Cinnamomum chemungianum</i> Mohan & Henry	120	I-4
338. *	<i>Cinnamomum keralaense</i> Kosterm.	82	XVII
339. *	<i>Cinnamomum nicolsonianum</i> Manilal & Shylaja	106	XV, XVII
340.	<i>Cryptocarya beddomei</i> Gamble	197	XIII-22
341.	<i>Cryptocarya griffithiana</i> Wight	133	IX
342.	<i>Litsea ghatica</i> Saldanha	351	XII-1
<u>LEMNACEAE</u>			
343.	<i>Lemna eleanorae</i> McCann	78	XIX
<u>LENTIBULARIACEAE</u>			
344. *	<i>Utricularia malabarica</i> Janarthanam & Henry	60	XIV-5
345.	<i>Utricularia minutissima</i> Vahl	372	IX
346. *	<i>Utricularia nayarii</i> Janarthanam & Henry	59	VI-16
347.	<i>Utricularia nivea</i> Vahl	78	XIX
348.	<i>Utricularia striata</i> Sm.	347	II-9
349. *	<i>Utricularia subramanii</i> Janarthanam & Henry	61	IV

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>LILIACEAE</u>			
350.	<i>Chlorophytum nimmonii</i> Dalz.	78	XIX
351.	<i>Sansevieria languinosa</i> Willd.	111	XVIII
<u>LINACEAE</u>			
352.	<i>Hugonia belli</i> Sedgwick	158	XIII-17
<u>LOGANIACEAE</u>			
353.	<i>Mitrasacme pygmaea</i> R. Br. var. <i>malaccensis</i> (Wight) Hara	67	I-7
<u>LORANTHACEAE</u>			
354.	<i>Tolypanthus lagenifer</i> (Wight) Tiegh.	367	IX-6
<u>LYTHRACEAE</u>			
355.	<i>Ammania auriculata</i> Willd.	376	XIII-20
356.	<i>Ammania pygmaea</i> Kurz.	374	XVIII
357.	<i>Hydrolithrum wallichii</i> Hook.f.	371	VII-1
358.	<i>Nesaea brevipes</i> Koehne	196	XII-11
359. *	<i>Rotala cookii</i> Joseph & Sivar.	72	X-6
360. *	<i>Rotala malabarica</i> Pradeep, Joseph & Sivar.	184	XIII-1
361. *	<i>Rotala malampuzhensis</i> R.V. Nair	377	VII-8, IX-9, XI-3
362.	<i>Rotala ritchiei</i> (Clarke) Koehne	193	VI-17
363. *	<i>Rotala vasudevani</i> Joseph & Sivar.	72	VII-1
<u>MALPIGHIACEAE</u>			
364.	<i>Hiptage acuminata</i> Wall. ex Juss.	177	VI-15
<u>MALVACEAE</u>			
365. *	<i>Hibiscus sreenarayanianus</i> Anil. & Ravi	8	II-10
366. *	<i>Julostylis ampumalensis</i> Pradeep & Sivar.	187	XI-2
367.	<i>Julostylis angustifolia</i> (Arn.) Thw.	208	XVII
368. *	<i>Julostylis polyandra</i> Ravi & Anil.	228	I-13, IV-3

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Sl.No.	Name of the Plant	Ref. No.	Locality
369. *	<i>Sida beddomei</i> Jacob	58	XIII-9
370.	<i>Sida elongata</i> Bl.	116	X-5
371. *	<i>Sida fryxellii</i> Sivar. & Pradeep	317	XI-4
372.	<i>Sida javensis</i> Cav.	116	X-5
373.	<i>Sida linifolia</i> Cav.	188	I
<u>MELASTOMATACEAE</u>			
374.	<i>Clidemia hirta</i> (Linn.) D.Don	166	XVIII
375.	<i>Memecylon talbotianum</i> Brandis	200	XIII-5
376. *	<i>Osbeckia abrahamii</i> Giri & Nayar	43	VIII
377. #	<i>Osbeckia lineolata</i> Gamble var. <i>anamalayana</i> Giri & Nayar	41	VI-4, IX-17
378. *	<i>Osbeckia mehrana</i> Giri & Nayar	47	I-4
379. *	<i>Sonerila kannanorensis</i> Giri & Nayar	46	XIII-5
380. *	<i>Sonerila devicolamensis</i> Nayar	169	VI-4
381. #	<i>Sonerila elegans</i> Wight var. <i>beddomei</i> Giri & Nayar	45	IX
382. *	<i>Sonerila gamblei</i> Giri & Nayar	44	VI-3
383. *	<i>Sonerila sadasivanii</i> Nayar	167	XVIII
384. *	<i>Sonerila sahyadrica</i> Giri & Nayar	42	I-13, IX-1
385. *	<i>Sonerila wynadensis</i> Nayar	168	XII
386.	<i>Sonerila zeylanica</i> Wight & Arn.	353	II-6
<u>MELIACEAE</u>			
387.	<i>Amoora beddomei</i> Kosterm.	75	VI-13
<u>MENISPERMACEAE</u>			
388.	<i>Cyclea barbata</i> Miers	93	IX-18
<u>MENYANTHACEAE</u>			
389. *	<i>Nymphoides krishnakesara</i> Joseph & Sivar.	73	XIII-11
390. *	<i>Nymphoides macrospermum</i> Vasudevan	375	VII-1, XI-3
391. *	<i>Nymphoides sivarajanii</i> Joseph	71	X-6
<u>MIMOSACEAE</u>			
392.	<i>Entada monostachya</i> DC.	234	XVIII

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Sl.No.	Name of the Plant	Ref. No.	Locality
393.	<i>Mimosa invisa</i> Mart.	142	V-1
394.	<i>Mimosa invisa</i> Mart. var. <i>inermis</i> Adelb.	170	V-1, VIII
<u>MOLLUGINACEAE</u>			
395.	<i>Mollugo stricta</i> Linn.	323	XVIII
<u>MORACEAE</u>			
396.	<i>Artocarpus gomezianus</i> Wall. ex Trec. ssp. <i>zeylanicus</i> Jarrett	78	XIX
397.	<i>Ficus auriculata</i> Lour.	198	XIII-3
398. #	<i>Ficus glaberrima</i> Bl. var. <i>bracteata</i> Corner	29	XVIII
399.	<i>Ficus rigida</i> var. <i>bracteata</i> (Corner) Bennet	367	IX-15
<u>MUSACEAE</u>			
400. *	<i>Musa kattuvazhana</i> Jacob	134	XIX
401. *	<i>Musa ochracea</i> Shepherd	268	XVII
402. *	<i>Musa sapidisiaca</i> Jacob	134	XIX
<u>MYRSINACEAE</u>			
403.	<i>Antistrophe serratifolia</i> (Bedd.) Hook.	144	IX-18
404.	<i>Ardisia gardneri</i> Clarke var. <i>zeylanica</i> Trimen	145	IX-15
405.	<i>Ardisia missionis</i> Wall. ex DC.	198	XIII-17
406. *	<i>Ardisia stonei</i> Sasi. & Sivar.	253	II-8, VIII-7
<u>MYRTACEAE</u>			
407.	<i>Syzygium makul</i> Gaertn. f.	92	IX-18
408.	<i>Syzygium montanum</i> (Wight) Gamble	198	XIII-22
409.	<i>Syzygium neesianum</i> Arn.	92	IX-21
410. *	<i>Syzygium parameswaranii</i> Mohan & Henry	119	I-1
411.	<i>Syzygium tamilnadensis</i> Radhak. & Chitra	197	XIII-22
<u>NYCTAGINACEAE</u>			
412.	<i>Boerhaavia punarnava</i> Saha & Krishnam	149	VII-4
413.	<i>Pisonia aculeata</i> Linn.	196	XIII-13

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>OLEACEAE</u>			
414. #	<i>Chionanthus ramiflorus</i> Roxb. var. <i>peninsularis</i> Ravikumar & Lakshmanan	235	VI-4
415.	<i>Schrebera swietenoides</i> Roxb.	197	XIII-4
<u>ORCHIDACEAE</u>			
416.	<i>Acampe ochracea</i> (Lindl.) Hochr.	266	VI-12
417.	<i>Acampe rigida</i> (Buch.-Ham. ex J.E.Smith) P.F.Hunt	278	IX-3
418.	<i>Aphyllorchis montana</i> (Thw.) Reichb. f.	122	I-3
419.	<i>Aphyllorchis prainii</i> Hook. f.	368	IX-18
420.	<i>Brachycorythis splendida</i> Summerh.	217	VI-2,4
421.	<i>Brachycorythis wightii</i> Summerh.	217	XVII-4
422.	<i>Bulbophyllum elegans</i> Gard ex Thw.	262	I-1
423. *	<i>Bulbophyllum rheedei</i> Manilal & Sathish.	105	I-10,II-4
424.	<i>Bulbophyllum xylophyllum</i> Par & Reichb.	245	II-8
425.	<i>Calanthe vestita</i> Lindl.	1	IX-1
426.	<i>Cheirostylis seidenfadeniana</i> Sathish. & Rasmus.	258	XVIII
427.	<i>Coelogyne flaccida</i> Lindl.	1	IX-1
428.	<i>Coelogyne ovalis</i> Lindl.	1	XVIII
429.	<i>Dendrobium crepidatum</i> Lindl.	158	XIII-20
430.	<i>Dendrobium densiflorum</i> Lindl. ex Wall.	1	XVIII
431.	<i>Dendrobium lawianum</i> Lindl.	127	VIII-7
432.	<i>Dendrobium mablae</i> Gammie	247	XIII-5
433.	<i>Dendrobium panduratum</i> Lindl.	103	IX-18
434. @	<i>Eria chandrasekharanii</i> (Bhargavan & Mohanan) Sathish. & Manilal	259	IX-18
435. #	<i>Eria muscicola</i> (Lindl.) Lindl. var. <i>brevilinguis</i> Joseph & Chandra.	64	I-1,VI
436. #	<i>Eria muscicola</i> (Lindl.) Lindl. var. <i>ponmudiana</i> Mohan & Henry	118	I-13
437.	<i>Eria pseudoclavicaulis</i> Blatt. & McCann	1	VI-3
438. *	<i>Eria tiagii</i> Manilal, Sathish. & Wood	100	IX-18
439.	<i>Eulophia cullenii</i> (Wight) Bl.	122	I-11
440.	<i>Eulophia emiliana</i> Saldanha	144	IX-1
441. *	<i>Eulophia hirsuta</i> Joseph & Vajravelu	69	IX-16
442.	<i>Gastrochilus bigibbus</i> (Reichb.f.ex J.D.Hook.) Kuntze	262	IX- 11,13
443.	<i>Gastrochilus dalzellianus</i> (Sant.) Sant. & Kapadia	266	IV-8

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Sl.No.	Name of the Plant	Ref. No.	Locality
444.	<i>Gastrochilus flabelliformis</i> (Blatt. & McCann) Saldanha	1	I-3,13, II-9
445.	<i>Habenaria furcifera</i> Lindl.	217	IX
446.	<i>Habenaria multicaudata</i> Sedgewick	201	XIII-5
447.	<i>Ipsea malabarica</i> (Reichb. f.) Hook. f.	97	IX-18
448.*	<i>Kingidium niveum</i> Sathish.	262	VIII-10,IX-14,21
449.*	<i>Liparis indiraii</i> Manilal & Sathish.	102	IX-18
450.	<i>Liparis prazeri</i> King & Pantl.	39	XII-9
451.*	<i>Luisia abrahami</i> Vatsala	1	II-9
452.	<i>Luisia evangelinae</i> Blatt. & McCann	1	XIII-5
453.	<i>Luisia macrantha</i> Blatt. & McCann	28	II-6
454.	<i>Malaxis congesta</i> (Lindl.) Deb	1	XII
455.	<i>Malaxis latifolia</i> Sm.	122	I-3
456.	<i>Malaxis mackinnoni</i> (Duthie) Ames.	1	VI-13,IX-15
457.#	<i>Malaxis versicolor</i> (Lindl.) Abeywickr. var. I	1	XVII
458.#	<i>Malaxis versicolor</i> (Lindl.) Abeywickr. var. II	1	VI-4
459.#	<i>Malaxis versicolor</i> (Lindl.) Abeywickr. var. III	1	XII
460.	<i>Malleola rosea</i> (Lindl.) Schltr.	217	VI-2
461.	<i>Nervilia crispata</i> (Bl.) Schltr.	150	XIII-18
462.	<i>Nervilia infundibulifolia</i> Blatt. & McCann	1	X-4
463.	<i>Nervilia prainiana</i> (King & Pantl.) Seidenfaden & Smitin	1	XIII-5
464.*	<i>Oberonia agastyamalayana</i> Sathish.	262	I-1
465.*	<i>Oberonia anamalayana</i> Joseph	217	XVIII
466.	<i>Oberonia bicornis</i> Lindl.	96	IX-18
467.*	<i>Oberonia bisaccata</i> Manilal & Sathish.	98	IX-18
468.	<i>Oberonia brachyphylla</i> Blatt. & McCann	70	IX-12
469.*	<i>Oberonia chandrasekharanii</i> V.J.Nair, Ramachandran & Ansari	159	XIII-5
470.	<i>Oberonia gammiei</i> King & Pantl.	266	IV-10
471.	<i>Oberonia iridifolia</i> Lindl.	217	VI-13
472.	<i>Oberonia longibracteata</i> Lindl.	147	VI
473.*	<i>Oberonia sebastiana</i> Shetty & Vivek.	276	VI-3
474.	<i>Oberonia tenuis</i> Lindl.	96	IX-18
475.	<i>Oberonia thwaitesii</i> Hook. f.	101	II-9
476.#	<i>Oberonia wightiana</i> Lindl. var. <i>nilgirensis</i> Ansari et al.	171	VI
477.*	<i>Oberonia wynadensis</i> Sivadasan & Balakrishanan	283	XII
478.@	<i>Pachystoma hirsuta</i> (Joseph & Vajravelu) Sathish. & Manilal	260	I-1,13 VI-11, IX-16

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Sl.No.	Name of the Plant	Ref. No.	Locality
479.	<i>Papilionanthe subulata</i> (Koenig) Garay	348	VI-4
480.	<i>Peristylis lawii</i> Wight	1	I-13
481.	<i>Phaius luridus</i> Thw.	62	I-1
482.	<i>Phalaenopsis mysorensis</i> Saldanha	158	XII-10, XIII-5
483.	<i>Phreatia elegans</i> Lindl.	1	VI-11
484.	<i>Pomatocalpa mannii</i> (Reich. f.) Sm.	247	IX-22
485. *	<i>Porpax chandrasekharanii</i> Bhargavan & Mohanan	15	IX-18
486. *	<i>Robiquetia josephiana</i> Manilal & Sathish.	99	IX-18
487.	<i>Schoenorchis latifolia</i> (Fischer) Saldanha	172	VI
488.	@** <i>Seidenfadeniella chrysanth</i> (Alston) Sathish.	262	VI-4, 11
489.	@** <i>Seidenfadeniella roseus</i> (Wight) Sathish.	262	XII-5, IX-19
490.	<i>Smithsonia maculata</i> (Dalz.) Saldanha	247	VI-14
491.	<i>Smithsonia straminea</i> Saldanha	70	IX-13
492.	<i>Smithsonia viridiflora</i> (Dalz.) Saldanha	78	IV-10
493.	<i>Thrixspermum album</i> (Ridl.) Schltr.	146	IV-6
494.	<i>Thrixspermum arachnites</i> (Bl.) Reich. f.	1	XIII-5
495.	<i>Thrixspermum complanatum</i> (Koenig) Sehltr.	262	XII-3
496.	<i>Thrixspermum pulchellum</i> (Thw.) Schltr.	104	I-10
497. *	<i>Trias bonaccordensis</i> Sathish.	257	I-3
498. @	<i>Trias crassifolia</i> (Thw. ex Trimen) Sathish.	257	I-3
499.	<i>Trias stocksii</i> Benth. ex Hook. f.	382	VI-13
500.	<i>Tropidia angulosa</i> (Lindl.) Bl.	201	XIII-5
501.	<i>Tropidia curculigoides</i> Lindl.	216	VI-9
502.	<i>Vanilla aphylla</i> Bl.	269	I
503.	<i>Zeuxine clandestina</i> Bl.	211	IX-18

OROBANCHACEAE

504. *	<i>Christisonia keralensis</i> Erady	40	IX-15
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OXALIDACEAE

505. *	<i>Biophytum congestiflorum</i> Govind.	52	VI-13
506. *	<i>Biophytum longipedunculatum</i> Govind.	52	VIII-1,8

PANDANACEAE

507.	<i>Pandanus kaida</i> Kurz	110	III-2, VIII-11
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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>PASSIFLORACEAE</u>			
508.	<i>Adenia hondala</i> (Gaertn.) de Wilde	212	IX-5
509.	<i>Adenia wightiana</i> (Wall. ex Wight & Arn.) Engler	212	IX-9
<u>PEDALIACEAE</u>			
510.	<i>Sesamum orientale</i> Linn. var. <i>malabaricum</i> Nar.	263	XV
<u>PERIPLOCAEAE</u>			
511. **	<i>Janakia arayalpathra</i> Joseph & Chandra.	65	V-2
<u>PHYTOLACCACEAE</u>			
512. *	<i>Petiveria alliacea</i> Linn	35	I
<u>PIPERACEAE</u>			
513. *	<i>Peperomia cochinchinensis</i> DC.	263	VII-4
514. #	<i>Piper nigrum</i> Linn. var. <i>hirtellosum</i> Asokan & Ravindran	233	IX-18
515. *	<i>Piper pseudonigrum</i> Velayudhan & Amalraj	381	IX-17,18, VI
516.	<i>Piper schmidtii</i> Hook. f.	347	II-9
517. *	<i>Piper silentvalleyensis</i> Ravindran, M.K. Nair & Asokan	233	IX-18
<u>PODOSTEMACEAE</u>			
518. *	<i>Dicraea filifolia</i> Ramamurthy & Joseph	204	IX-17
519.	<i>Farmeria metzgerioides</i> (Trim.) Willis	218	XIII, XIV
520.	<i>Podostemon subulatus</i> Gardn.	145	IX-5
521. *	<i>Polypleurum munnarensense</i> Nagendran & Arekal	131	VI-11
522.	<i>Polypleurum wallichii</i> (R. Br. ex Griff.) Warm.	219	IX-5, XI, XIII
523. *	<i>Willisia arekaliana</i> Shivamurthy & Sadanant.	277	IX-18
<u>POLYGALACEAE</u>			
524.	<i>Polygala arillata</i> Buch - Ham. forma <i>meeboldii</i> Mukherjee	78	XIX

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Sl.No.	Name of the Plant	Ref. No.	Locality
525.	<i>Polygala erioptera</i> DC. var. <i>vahliana</i> (DC.) Chodat	78	XIX
526.	<i>Polygala javana</i> DC. var. <i>angustifolia</i> Thw.	78	XIX
527.	<i>Polygala jacobii</i> Chandr.	84	II-2
528. *	<i>Polygala ramaswamiana</i> Mukherjee	126	VI-13
<u>POLYGONACEAE</u>			
529.	<i>Oxygonum sinuatum</i> (Hochst. & Steud. ex Meisn.) Dammer.	226	II
530.	<i>Polygonum barbatum</i> Linn.	347	II-8
<u>PORTULACACEAE</u>			
531. #	<i>Portulaca oleracea</i> Linn. var. <i>linearifolia</i> Sivar. & Manilal	308	XVIII
532. \$	<i>Portulaca pilosa</i> Linn. ssp. <i>grandiflora</i> (Hook.) Geesink	292	XI
533. #	<i>Portulaca pilosa</i> Linn. var. <i>tuberosa</i> (Roxb.) Sivar.	292	XI
<u>RHAMNACEAE</u>			
534.	<i>Sageratia hamosa</i> Brongn.	200	XIII-5
<u>RUBIACEAE</u>			
535. *	<i>Agrostemma anupama</i> Sivar.	293	X-6
536.	<i>Agrostemma rostratum</i> Wall.	265	VII-7
537. #	<i>Borreria articularis</i> (Linn. f.) F.N. Williams var. <i>hispida</i> (Linn.) Sivar. & Manilal	307	XI,XVI
538. #	<i>Borreria articularis</i> (Linn. f.) F.N. Williams var. <i>articularis</i> Sivar. & Manilal	307	XI
539. *	<i>Borreria eradii</i> Ravi	221	II
540. *	<i>Borreria malabarica</i> Sivar. & Manilal	304	XI
541. #	<i>Borreria stricta</i> (Linn. f.) K.Schum. var. <i>rosea</i> Sivar. & Manilal	304	XI
542.	<i>Coffea robusta</i> Linn.	347	I-5
543.	<i>Diodia teres</i> Walter	230	II
544.	<i>Hedyotis bourdillonii</i> (Gamble) Rolla Rao & Hemadri	150	IX-18, XVI

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Sl.No.	Name of the Plant	Ref. No.	Locality
545. *	<i>Hedyotis devicolamensis</i> Deb & Dutta	31	VI-4
546. *	<i>Hedyotis erecta</i> Manilal & Sivar.	108	X-3
547.	<i>Hedyotis pinifolia</i> Wall. ex G.Don.	249	VIII-7
548. *	<i>Hedyotis santapaui</i> Shetty & Vivek.	272	VI-4
549. *	<i>Hedyotis silent-valleyensis</i> Vajravelu, Rathak. & Bhargavan	369	IX-7
550. *	<i>Ixora agasthyamalamanum</i> Sivadasan & Mohanan	284	I-1
551. *	<i>Ixora manantoddii</i> Husain & Paul	57	XII-3
552. *	<i>Ixora sivarajiana</i> Pradeep	182	XI-18
553.	<i>Mitracarpus verticillatus</i> (Schum. & Thonn.) Vatke.	264	V, VIII, IX, XI
554. *	<i>Oldenlandia hygrophila</i> Brem.	20	IX
555.	<i>Ophiorrhiza barnesii</i> Fischer	263	I-5
556.	<i>Ophiorrhiza caudata</i> Fischer	263	I-5
557.	<i>Ophiorrhiza incarnata</i> Fischer	263	XII-4
558. *	<i>Ophiorrhiza munnarensis</i> Fischer	263	VI-11
559. *	<i>Ophiorrhiza nairii</i> Ramamurthy & Rajan	209	VI-1
560. *	<i>Psilanthus bababudanii</i> Sivar., Biju & P.Mathew	311	XII-2
561. *	<i>Psilanthus bridsoniae</i> Sivar., Biju & P.Mathew	311	VIII-7
562. *	<i>Psilanthus malabaricus</i> Sivar., Biju & P.Mathew	311	XV
563. *	<i>Psychotria keralensis</i> Deb & Gang.	30	XIII-5
564.	<i>Psychotria sarmentosa</i> Bl.	152	III-8
565. *	<i>Psychotria sekharana</i> Ramamurthy & Rajan	206	VIII
566.	<i>Richardia scabra</i> Linn.	196	XII-3
567.	<i>Spermacoce assurgens</i> Ruiz & Pavon	325	VII-4
568. @	<i>Spermacoce malabarica</i> (Sivar. & Manilal) Sivar., R.V.Nair & Ahmed kunju	325	VII-4
569. *	<i>Spermacoce ramanii</i> Sivar. & R.V.Nair	324	X-7
570. *	<i>Tarenna trichurensis</i> Sasi. & Sivar.	251	VIII

RUTACEAE

571. #	<i>Atalantia recemosa</i> Wight. Var. <i>bourdillonii</i> K.N.Nair & M.P.Nayar	138	II, VIII-9
572.	<i>Clausena excavata</i> Burm. f.	78	XIX
573.	<i>Glycosmis macrocarpa</i> Wight	197	XIII-5

SAPOTACEAE

574.	<i>Isonandra perrottetiana</i> Wight	137	VII-5
575. *	<i>Palaquium ravii</i> Sasi. & Vink	256	VIII-7

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>SCROPHULARIACEAE</u>			
576.	<i>Adenosma subrepens</i> Benth. & Hook. f.	67	I
577. *	<i>Limnophila glandulifera</i> Philcox	179	XVI
578.	<i>Lindernia angustifolia</i> (Benth.) Wettst.	223	II-13
579. *	<i>Lindernia manilaliana</i> Sivar.	291	XV
580. #	<i>Lindernia tenuifolia</i> var. <i>pygmaea</i> Sivar. & P.Mathew	312	XI-12
581.	<i>Mecardonia procumbens</i> (Miller) Small	74	XII-12
582.	<i>Stemodia verticillata</i> (Miller) Sprague	296	X-7
583. *	<i>Torenia lindernioides</i> Saldanha	243	XII-2
584.	<i>Torenia violacea</i> (Azaolo. ex Blanco) Pennell	243	XIII-7
<u>SIMAROUBACEAE</u>			
585.	<i>Brucea amarissima</i> (Lour.) Merr.	140	V-1
<u>SOLANACEAE</u>			
586.	<i>Physalis longifolia</i> Nutt.	141	V-1
<u>STERCULIACEAE</u>			
587.	<i>Cullenia exarillata</i> Robyns	78	XIX
588.	<i>Eriolaena lushingtonii</i> Dunn	173	VI
589.	<i>Melochia nodiflora</i> Swartz	332	I-6
590.	<i>Pterocymbium tinctorium</i> (Blanco) Merr. var. <i>javanicum</i> (R.Br.) Kosterm.	319	XI-16
<u>SYMPLOCACEAE</u>			
591.	<i>Symplocos kurgensis</i> Clarke	346	XIII-5
592. \$	<i>Symplocos macrophylla</i> Wall. ex DC. ssp. <i>namboodirianus</i> Sivadasan & Mohanan	286	I-1
593.	<i>Symplocos pulchra</i> Wight ssp. <i>pulchra</i> Wight	144	IX-21
<u>TACCACEAE</u>			
594.	<i>Tacca econtopetaloides</i> (Limn.) O Kuntze	107	IX-16

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Sl.No.	Name of the Plant	Ref. No.	Locality
<u>THYMELEACEAE</u>			
595.	<i>Gyrinops walla</i> Gaertn.	67	I
<u>TILIACEAE</u>			
596.	<i>Triumfetta tungarensis</i> Billore	208	VIII-3
<u>TRICHOPODACEAE</u>			
597.	<i>Trichopus zeylanicus</i> Gaertn. ssp. <i>travancoricus</i> (Bedd.) Burkill	67	I-3
<u>URTICACEAE</u>			
598.	<i>Elatostema cuneatum</i> Wight	197	XIII-13
599.	<i>Elatostema lineolatum</i> Wight var. <i>setosum</i> Henry	197	XIII-22
<u>VERBENACEAE</u>			
600.	<i>Clerodendrum bracteosum</i> Kostel.	133	XIX
601.	<i>Clerodendrum calamitosum</i> Linn.	155	XIII
602.	<i>Clerodendrum heterophyllum</i> (Poir.) R.Br	310	XV
603.	<i>Clerodendrum paniculatum</i> Linn.	382	VI-13
604.	<i>Clerodendrum philippinum</i> Schau.	310	XVIII
605.	<i>Clerodendrum wallichii</i> Merr.	183	XII-12
606.	<i>Stachytarpheta cayennensis</i> (L.C. Rich.) Schau.	148	III-4, IV-9
607.	<i>Stachytarpheta dichotoma</i> Vahl	185	XII-7
608.	<i>Symphorema involucrata</i> Roxb.	200	XIII-17
609. #	<i>Vitex negundo</i> var. <i>purpurascens</i> Sivar. & Moldenke	310	XVIII
<u>VITACEAE</u>			
610. *	<i>Tetrastigma gamblei</i> Shetty & P.Singh	270	XIII-16, 17
<u>ZINGIBERACEAE</u>			
611.	<i>Alpinia mutica</i> Roxb.	48	IX, XIV

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Sl.No.	Name of the Plant	Ref. No.	Locality
612. *	<i>Alpinia smithiae</i> Sabu & Mangaly	240	IX-1
613.	<i>Amomum microstephanum</i> Baker	367	IX-7
614.	<i>Amomum muricatum</i> Bedd.	197	XII, XIII-16
615.	<i>Curcuma aurantiaca</i> Van Zijp	6	XVIII
616. *	<i>Curcuma kannanorensis</i> Ansari, V.J.Nair & N.C. Nair	9	XIII-10
617. #	<i>Curcuma kannanorensis</i> var. <i>lutea</i> Ansari, V.J.Nair & N.C.Nair	9	XIII-8
618. *	<i>Curcuma coriacea</i> Mangaly & Sabu	88	XVII
619. *	<i>Curcuma ecalcarata</i> Sivar. & Indu.	298	XVII
620.	<i>Curcuma lutea</i> (Ansari <i>et al.</i>) Amalraj <i>et al.</i>	7	XIII-8
621. *	<i>Curcuma malabarica</i> Velayudhan, Amalraj & Murali.	380	VIII-6, XII, XIV
622. *	<i>Curcuma peethapushpa</i> Sasi. & Sivar.	250	XVII
623. *	<i>Curcuma raktakanta</i> Mangaly & Sabu	89	VII-8, VIII-5
624. *	<i>Curcuma vamana</i> Sabu & Mangaly	241	II-9, IX-4
625.	<i>Globba cernua</i> Baker	242	VI, X-5

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